

Title (en)  
REGULATOR CIRCUIT AND CAR PROVIDED WITH THE SAME

Title (de)  
REGLERSCHALTUNG UND DAMIT AUSGESTATTETES AUTO

Title (fr)  
CIRCUIT REGULATEUR ET AUTOMOBILE EQUIPEE D'UN TEL CIRCUIT

Publication  
**EP 1959328 A1 20080820 (EN)**

Application  
**EP 06834090 A 20061206**

Priority  
• JP 2006324335 W 20061206  
• JP 2005355150 A 20051208

Abstract (en)  
An output transistor (12) is provided between an input terminal (102) and an output terminal (104). An error amplifier (10) adjusts the gate voltage (Vg) of the output transistor (12) such that the voltage that corresponds to the output voltage Vout approaches a predetermined reference voltage (Vref). A fluctuation detection capacitor (C1) is provided on a path from the input terminal (102) to a grounded terminal (GND), which sets one terminal thereof to a fixed voltage. A current feedback circuit (20) supplies, to the gate of the output transistor (12), the current (Ix2) that corresponds to the current (Ix1) that flows through the fluctuation detection capacitor (C1). A clamp circuit (30) clamps the gate voltage (Vg) of the output transistor (12). The clamp circuit (30) clamps the gate voltage (Vg) of the output transistor (12) such that the voltage difference between the gate of the output transistor and the input terminal (102) exhibits a predetermined clamp voltage (Vclmp) or more.

IPC 8 full level  
**G05F 1/56** (2006.01); **B60R 16/03** (2006.01)

CPC (source: EP US)  
**G05F 1/575** (2013.01 - EP US)

Citation (search report)  
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Designated contracting state (EPC)  
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